

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/755,166A
Source: FEW9
Date Processed by STIC: 11-15-07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/15/2004

PATENT APPLICATION: US/10/755,166A

TIME: 11:51:16

Input Set : A:\ISIS5425.ST25.txt

Output Set: N:\CRF4\11152004\J755166A.raw

3 <110> APPLICANT: Manoharan, Muthiah
 4 Cook, Phillip Dan
 5 Bennett, Clarence Frank
 7 <120> TITLE OF INVENTION: DERIVATIZED OLIGONUCLEOTIDES HAVING IMPROVED UPTAKE AND
 HER 8 PROPERTIES
 10 <130> FILE REFERENCE: ISIS-5425
 12 <140> CURRENT APPLICATION NUMBER: US 10/755,166A
 13 <141> CURRENT FILING DATE: 2004-01-09
 15 <150> PRIOR APPLICATION NUMBER: US 10/073,718
 16 <151> PRIOR FILING DATE: 2002-02-11
 18 <150> PRIOR APPLICATION NUMBER: US 09/633,659
 19 <151> PRIOR FILING DATE: 2000-08-07
 21 <150> PRIOR APPLICATION NUMBER: US 08/211,882
 22 <151> PRIOR FILING DATE: 1994-04-22
 24 <150> PRIOR APPLICATION NUMBER: PCT/US92/09196
 25 <151> PRIOR FILING DATE: 1992-10-23
 27 <160> NUMBER OF SEQ ID NOS: 47
 29 <170> SOFTWARE: PatentIn version 3.3
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 20
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Oligonucleotide
 40 <220> FEATURE:
 41 <221> NAME/KEY: misc_feature
 42 <222> LOCATION: (6)..(6)
 43 <223> OTHER INFORMATION: nucleotide functionalized to include a cholic acid linked via
 44 linker to the heterocyclic base of a 2'-deoxyuridine nucleotide
 46 <400> SEQUENCE: 1
 47 ttgcttccat cttcctcgtc 20
 50 <210> SEQ ID NO: 2
 51 <211> LENGTH: 17
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Artificial
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Oligodeoxynucleotide
 59 <220> FEATURE:
 60 <221> NAME/KEY: misc_feature
 61 <222> LOCATION: (1)..(1)
 62 <223> OTHER INFORMATION: cholic acid
 64 <220> FEATURE:

65 <221> NAME/KEY: misc_feature

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67 <223> OTHER INFORMATION: phosphorothioate inter-nucleotide backbone linkage
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70 ctgtctccat cttcact 17
73 <210> SEQ ID NO: 3
74 <211> LENGTH: 20
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Oligodeoxynucleotide
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (1)..(19)
85 <223> OTHER INFORMATION: phosphorothioate inter-nucleotide backbone linkage
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (20)..(20)
90 <223> OTHER INFORMATION: cholic acid
92 <400> SEQUENCE: 3
93 ctgtctccat cctcttcact 20
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 18
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial
101 <220> FEATURE:
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105 <220> FEATURE:
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108 <223> OTHER INFORMATION: phosphorothioate inter-nucleotide backbone linkage
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112 <222> LOCATION: (18)..(18)
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116 tgggagccat agcgaggc 18
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121 <212> TYPE: DNA
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133 <220> FEATURE:
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135 <222> LOCATION: (1)..(1)

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136 <223> OTHER INFORMATION: cholic acid
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141 <223> OTHER INFORMATION: cholic acid
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149 <212> TYPE: RNA
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152 <220> FEATURE:
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158 <222> LOCATION: (1)..(1)
159 <223> OTHER INFORMATION: cholic acid
161 <220> FEATURE:
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163 <222> LOCATION: (1)..(12)
164 <223> OTHER INFORMATION: phosphorothioate
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (1)..(12)
169 <223> OTHER INFORMATION: 2'-O-methyl
171 <400> SEQUENCE: 6
172 cccaagcuca ga 12
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192 <223> OTHER INFORMATION: 2'-O-methyl
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200 cccaagcuca ga 12
203 <210> SEQ ID NO: 8
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208 <220> FEATURE:
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213 <221> NAME/KEY: misc_feature
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215 <223> OTHER INFORMATION: cholic acid
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (1)..(12)
220 <223> OTHER INFORMATION: phosphorothioate
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223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)..(12)
225 <223> OTHER INFORMATION: 2'-O-methyl
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234 <213> ORGANISM: Artificial
236 <220> FEATURE:
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240 <220> FEATURE:
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242 <222> LOCATION: (6)..(6)
243 <223> OTHER INFORMATION: pentyl-N-phthalimido
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252 <213> ORGANISM: Artificial
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255 <223> OTHER INFORMATION: Oligonucleotide
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259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (9)..(9)
261 <223> OTHER INFORMATION: pentyl-N-phthalimido functionality
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267 <210> SEQ ID NO: 11
268 <211> LENGTH: 20
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Oligonucleotide
276 <220> FEATURE:

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277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (9)..(9)
279 <223> OTHER INFORMATION: pentyl-N-phthalimido functionality
281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: (18)..(18)
284 <223> OTHER INFORMATION: pentyl-N-phthalimido functionality
286 <400> SEQUENCE: 11
287 ctgtctccat cctcttcact 20
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291 <211> LENGTH: 20
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Oligonucleotide
299 <220> FEATURE:
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301 <222> LOCATION: (1)..(19)
302 <223> OTHER INFORMATION: phosphorothioate inter-nucleotide backbone linkage
304 <220> FEATURE:
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306 <222> LOCATION: (9)..(9)
307 <223> OTHER INFORMATION: pentyl-N-phthalimido functionality
309 <400> SEQUENCE: 12
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314 <211> LENGTH: 18
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323 <221> NAME/KEY: misc_feature
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327 <220> FEATURE:
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329 <222> LOCATION: (15)..(15)
330 <223> OTHER INFORMATION: pentyl-N-phthalimido functionality
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336 <210> SEQ ID NO: 14
337 <211> LENGTH: 18
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Oligonucleotide
345 <220> FEATURE:
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47

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